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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,366	12/12/2003	Gerard R. Lazo	0094.03	2526
25278 USDA-ARS-O	7590 01/08/2003 FFICE OF TECHNOI	EXAMINER		
PATENT ADVISORS OFFICE WESTERN REGIONAL RESEARCH CENTER 800 BUCHANAN ST			KIM, PAUL	
			ART UNIT	PAPER NUMBER
ALBANY, CA	94710		2161	
			MAIL DATE	DELIVERY MODE
			01/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/734,366	LAZO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Paul Kim	2161				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 31 Oc	ctober 2007.	·				
	action is non-final.					
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 29-36 is/are pending in the application).					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>29-36</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	,					
9) The specification is objected to by the Examine	г.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the B	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
. * *						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:	·				

10/734,366 Art Unit: 2161

DETAILED ACTION

This Office action is responsive to the following communication: Amendment filed on 31 October
 2007.

2. Claims 29-36 are pending and present for examination. Claims 29 and 36 are in independent form.

Response to Amendment

- 3. Claims 1-28 have been cancelled.
- 4. Claims 29-36 have been added.
- 5. No claims have been amended.

Claim Objections

- 6. **Claim 29** is objected to because of the following informalities:
 - a. Line 10 requires a comma after the term "redundancy." Appropriate correction is required.
 - b. Lines 13-14 refer to "corresponding an assembled contig." It is believed that the aforementioned recitation was intended to refer to "corresponding to an assembled contig." Appropriate correction is required.
- 7. **Claim 36** is objected to because of the following informalities:
 - a. Line 8 refers to "cluster ESTs." It is believed that the aforementioned recitation was intended to refer to the method step of "clustering ESTs." Appropriate correction is required.
 - b. Line 16 refers to "corresponding the assembled contig." It is believed that the aforementioned was intended to refer to "corresponding to the assembled contig." Appropriate correction is required.

Page 3

10/734,366 Art Unit: 2161

Application/Control Number:

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 9. **Claims 29 and 36** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 10. **Claim 29** recites the limitation "contributions of ESTs" in line 16. It is unclear whether this is intended to be the same as or different from the ESTs recited in line 3 of the present claim.
 - a. Additionally, line 16 recites the limitation "source library." It is unclear whether this is intended to be the same as or different from the source library recited in lines 2, 7, and 11 of the present claim.
- 11. **Claim 36** contains similar types of deficiences as those described with respect to claim 29, the number a nature of which is too numerous to mention each individually. It is incumbent upon Applicant to ensure any amendment addresses the deficiencies of claim 36 in addition to those specifically noted with respect to claim 29.

Claim Rejections - 35 USC § 101

12. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

13. **Claim 36** is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. It is noted that the limitations of the claims may be considered to be software, to 46. The per se, since the claims fail recite a functional interrelationship between the computer software and hardware components which permit the software's functionality to be realized. Since a computer program is merely a set of instructions capable of being executed by a program, the computer program

Application/Control Number:

10/734,366

Art Unit: 2161

Page 4

itself is not a process and is nonstatutory functional descriptive material. See State Street, 149 F.3d at

1373, 47 USPQ2d at 1601-02. MPEP 2106. "The claimed invention as a whole must accomplish a

practical application. That is, it must produce a 'useful, concrete and tangible result' " (emphasis added).

Allowable Subject Matter

14. Claim 29 would be allowable if rewritten or amended to overcome the rejection(s) under 35

U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

15. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Paul Kim whose telephone number is (571) 272-2737. The examiner can normally be

reached on M-F, 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu

Mofiz can be reached on (571) 272-4080. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ETIENNE LEROUX
PRIMARY EXAMINER

Etiene Phhano

Daul Kim

Patent Examiner, Art Unit 2161

TECH Center 2100